CASE #: FY87-1725

SITE ASSESSMENT AND SAMPLING MISSION

ΑT

GRAMP ROAD DRUM STIPE TX 12982305195 HOUSTON, HARRIS COUNTY, TEXAS

Prepared for

RPA REGION VI

EMERGENCY RESPONSE BRANCH

J. Chris Petersen Deputy Project Officer

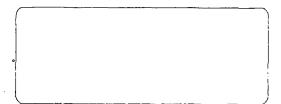
Ву

ECOLOGY AND ENVIRONMENT, INC.

TECHNICAL ASSISTANCE TEAM

HOUSTON, TEXAS

DATE: 9/10/87



PRELIMINARY REPORT This does not consultute final epinion of EPA.



ecology and environment, inc.

6440 HILLCROFT AVENUE, HOUSTON, TEXAS 77081, TEL. 713/771-9460

International Specialists in the Environment

DATE:

September 10, 1987

TO:

James Staves, OSC

EPA Region VI. Emergency Response Branch

THRU:

J. Chris Petersen, Deputy Project Officer EPA Region VI, Emergency Response Branch

THRU:

William Goode, TAT Leader

Region VI, Technical Assistance Team - Dallas

FROM:

Richard Yeager, TAT Member RNY

Region VI, Technical Assistance Team - Houston

SUBJECT:

Site Assessment and Sampling Mission

Grant Road Site

Houston, Harris County, Texas

912 305195

TDD #: T06-8706-37
PAN #: TTX 0587 SAA
CASE #: FY87-1725

On June 25, 1987, TAT members Yeager and McLaughlin investigated a report by a citizen concerning abandoned drums in the north part of Houston. abandoned drums are located on a wooded tract of land to the east of the Warner Cable hub station at 9602 Grant Road, Harris County, Houston. The purpose of TAT's visit was to perform reconnaissance at the site and to determine if an immediate and substantial threat to the public health or the environment exists at the site. When TAT arrived on site, Warner Cable personnel were also present. Warner Cable showed TAT the location of the drums. One of the Warner Cable personnel stated that he believed the lot to the east of Warner Cable's property had once been a "fertilizer or pesticide place." Subsequently, TAT investigated the area. Approximately 50 fifty-five gallon steel drums were located to the north of an east-west barbed-wire fence. Most of the drums were upright, and some were still on pallets. Most were so badly rusted that the labels on them could not be read. Some of the drums were clearly marked "Anhydous Aluminum Chloride." None of the drums appeared to be leaking; however, some appeared to be bulging. There was no stressed vegetation in the area around the drums. There was little evidence of human traffic around the drum area, although what appeared to be a child's "fort" was located about 300 feet to the south of the drum area. A strip mall is located approximately 200 feet to the east of the drums, and a child day care center is located one quarter mile to the southeast. Access to the drums is not restricted. TAT left the site and reported site conditions to OSC Hammack.

On June 26, 1987, TAT member McLaughlin placed a telephone call to Jerry Spetseris, a Field Investigator for the Texas Water Commission TWC. Mr. Spetseris stated that he found about ten drums in mid-May, but did not know about the 50 drums along the barbed-wire fence. He also stated that he and a potential lessor of the property opened one of the drums labeled "Anhydrous Aluminum Chloride" and found "paint wastes." He also informed TAT that the property management firm which handles the property is Raymond R. Betz Company.

TAT member McLaughlin subsequently phoned Raymond R. Betz Company and spoke with Joanne Schnell. She stated that the property which contains the drums was purchased by a group of investors in 1982 and managed by Raymond R. Betz Company. She also stated that she had no idea what the drums contained. She was in the process of receiving bids for the removal of the drums.

On June 29, 1987, TAT members Yeager, McLaughlin and Fry travelled to the site in order to obtain soil samples from the drum area. TAT was accompanied to the site by OSC James Staves. TAT also met with TWC Field Investigator Spetseris at the site. In order to maneuver in the vicinity of the drums, Spetseris cleared brush near the drums. Spetseris also showed TAT 11 additional drums located to the north of the main group of drums. dressed in Safety Level B and conducted air monitoring with the OVA. No readings above background were observed. Draeger tubes which detect hydrogen chloride were also used to determine if the gas was evolving from drums marked aluminum chloride. None was detected. TAT then downgraded to Safety Level C and obtained four soil samples from selected areas near the drums. During the investigation, TAT accurately counted the number of drums on the site. Sixty 55-gallon steel drums were counted; forty-nine were located along the eastwest fence line, and eleven were scattered in the wooded area to the north. Thirteen of the drums were clearly marked as "Anhydrous Aluminum Chloride." A few drums were marked as atomized aluminum. Some of the bands which held the drums together on the pallets were still in place. After collecting the soil samples (see site sketch for sampling locations), TAT left the site. The samples were taken to the EPA Laboratory in Houston to be analyzed for priority pollutants.

Summary of Laboratory Results

Four soil grab samples were obtained in the vicinity of the drums. The samples were analyzed for priority pollutants (Hazardous Substance List metals and cyanide, ABN's, VOAs, pesticides, and herbicides.) No VOAs, pesticides, or herbicides were detected in any of the samples.

Of the four samples taken, only Sample #4 showed significantly elevated levels (greater than 3 times the western U.S. ambient background) of several metals.

Sample #4	Conc. (mg/kg)	Ambient Background Western US (mg/kg)
Lead	413	17
Mercury	2.86	0.046
Zinc	261.8	70

Cyanide concentrations in the samples were:

Sample #	CN (mg/kg)
1	0.05 (less than detection limit)
2	0.13
3	0.51
4	0.17

ABN analysis in Sample #1 revealed a bis(2 ethylhexyl)phthalate concentration of 15,000 ug/kg. Sample #3 showed and estimated concentration of 4440 ug/kg of an unknown compound. Sample #4 showed the following tentatively identified concentrations: gamma-chlordane, 873 ug/kg; unknown chlorinated hydrocarbon, 590 ug/kg; unknown chlorinated hydrocarbon, 354 ug/kg; and an unknown compound, 3450 ug/kg.

Conclusions

ABN analysis is inconclusive. Bis(2 ethylhexyl)phthalate is a common laboratory contaminant. Tentatively identified concentrations of gamma-chlordane and chlorinated hydrocarbons were not confirmed in the pesticide analysis. Sample #3 showed a cyanide concentration approximately ten times the detection limit. Metal analysis showed elevated concentrations of lead, mercury, and zinc.

The elevated concentrations of lead, mercury, and zinc in the soil indicate that further investigation into the contents of the drums is warrented. The proximity of the shopping mall and unresticted access to the site pose the possibility of human or animal contact. TAT recommends that (1) the contents of the drums be sampled and/or (2) the PRP's should be strongly urged to properly dispose of the drums. Research into the previous ownership of the site may also be helpful in determining the contents of the drums.

List of Attachments: TDD No. T06-8706-37

Trip Narrative

Topographic Map

Site Sketch

Photographs and Negatives

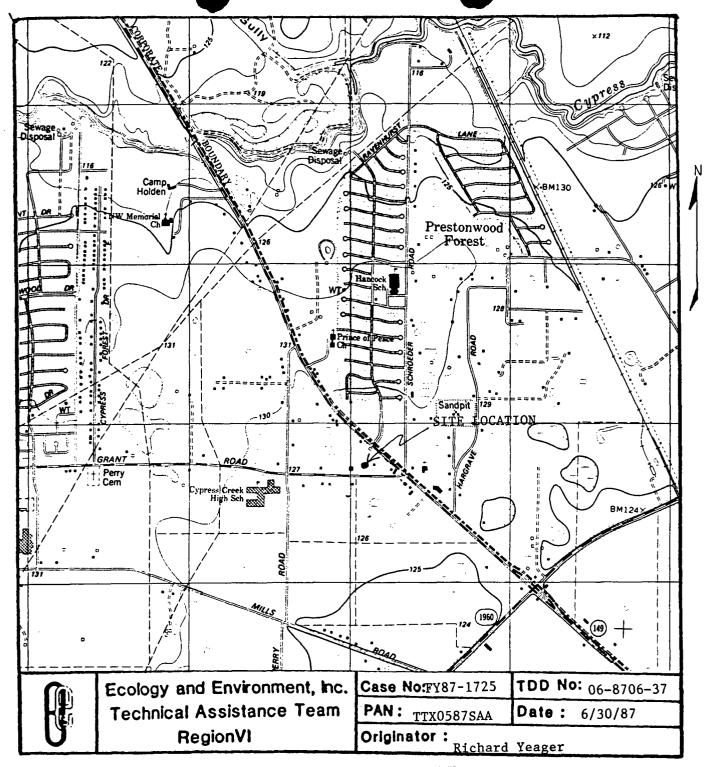
Logbook Copies

Phone Conversation Records

EPA Laboratory Analysis

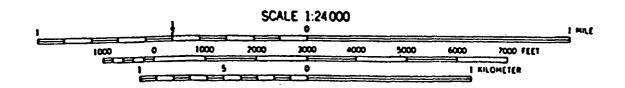
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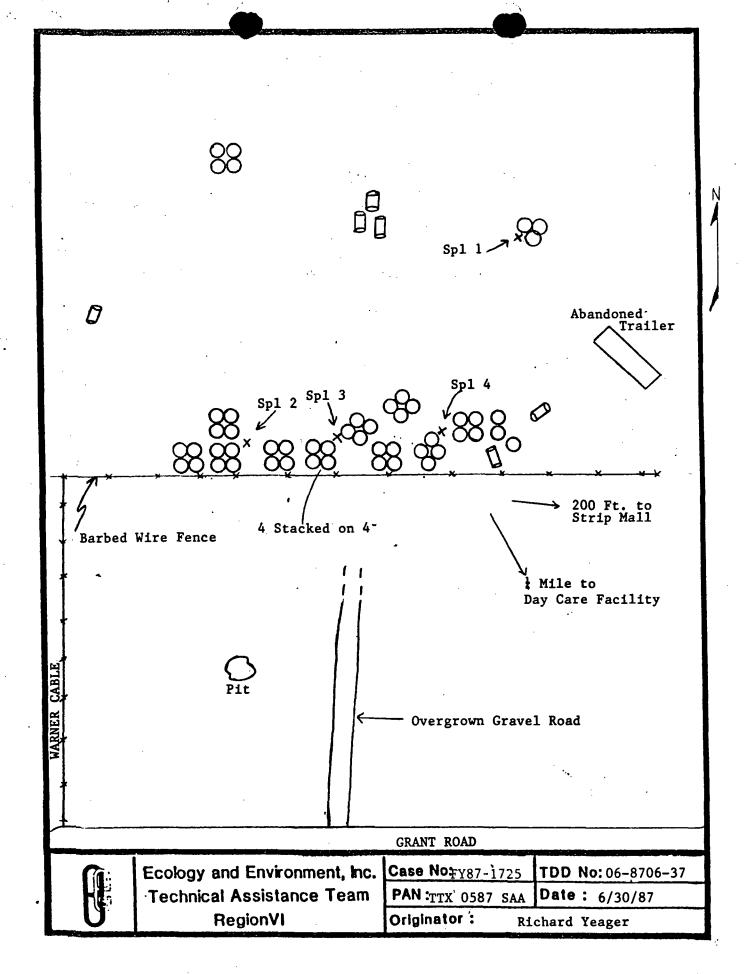
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LOCATION OF GRANT ROAD SITE

SATSUMA QUADRANGLE
TEXAS-HARRIS CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
NE/4 ADDICKS 15' QUADRANGLE







	4
Page 2 of 4	
TDD#: T06-8709-17	,
Photographer / Witness	To the second
Marguccio/ Yeager, Hardin, Donohue	<u> </u>
Date / Time / Direction	. !
9/22/87 0930 West	
Comments: TAT investigating four d	rums
which showed significant deteriorat	ion.
	. ; ,



Photographer / Witness	
Marguccio/ Yeager, Hardin, Donohue	
Date / Time / Direction	:
9/22/87 0932 South	,
Comments: View of an aggregate of	four
drums overgrown by vegetation.	3 :
	:
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Page	3	of	4
TDD#:	T06-87	709-1	7

Photographer / Witness

Marguccio/ Yeager. Hardin. Donohue

Date / Time / Direction

9/22/87 0935 West

Comments: TAT performing air monitoring on lone drum.



Photographer / Witness

Staves/_Rvan

Date / Time / Direction

9/22/87 South

Comments: TAT conducting drum sampling of open containers.



Page _	4 of	4		
TDD#:_I	<u>06-8709-1</u>	7		
Photog	rapher	/ Witness	3	
Staves/	Ryan		·	1
Date /	Time /	Direction	מס	
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Date /	Time / Direction	
9/22/87	South	
Commen	s: TAT conducting sampling and	
<u>labelli</u>	ng of drums.	
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- TUESDAY 9-22-87 MARGUCCIO, HARDIN, DONOHUE AND YEACHEL TO HOUGTON TAT VEHICLE DEPARTED HOTEL 0170 ARRIVED SITE 0800, 0805 COVERCED SAFEM MEETING DISCUSSED CAJELTIVES WITH, OSC. PET-UP FOR SITE ENTEY. OUR BACKBROUND 1.6 ppm. ENTRY 0915. RAD BACK GROWNS BY THITIAL ENTRY DROWNS DRUMS NO EXPLOSIVE RESPINGS ONE GREY DRUM WITH OPEN BUNG READ 25 ppm 2 CONTAINERS FREW. THE CLRSZING BRUSH. DRUMS TO NORTH ONE OPE RUSTED ONA - 15 ppm, ONE BLACK CYCINDER INITIALY FOUND 9 PLUMS TO NORTH - ENTEY COMPLETES 0940. 200 EVERY STARTED 1008 SAMPLE GROSS TAKEN J. HARDON 1017. BERRY GROZ 1020 DEC SOLIO OVA ON GROSS DRUM AFFER MERRY JAMPE TAKEN 1000 ppm warkED TO DEWMS TO NORTH. OPEN TOP DRUM GROSI FOR LIONID PHATE TAKEN 1030, GROBS FOR SOLID PHASE - BEN TO BRICK RED SLUDGE, TAKEN 1033. OFF AIR AT END OF ENTRY 1038. DROP SIMPLET LUD EQUIPMENT. BZELK DECON SOURCES AND EQUIPMENT. " REFILED TONKS OF DIE. COMPLETED CHAIN OF CUSTODY AND SOMPLE DIFO. SEALED COOLER FOR DELIVERY TO HOUSTON LAB 1146. DROVE TO HOUSTON LAB, MERIVED 1355 HOVES DELIVORED SAMPLES, DISCUSSED TURNAROUND THATE FOR ENAUSIS, SETTLED ON 30 PAIS, UNLESS OS CONTACTS WB TO CHANGE RETURNED TO HUSTON TAT OFFICE PETVENED LARGE AIR CHLINOBES (2) OUP PICKED IN TWO MORE FOR TOMOROWS ASSESSMENT, PROFEDED TO HOTEL.



PHONE CONVERSATION RECORD

Conversation with:	Date////////						
VameJIM STAVES , OSC	Time) 600 _AM/RD						
Company EPA							
Address							
	Call Striginator Received Call						
Phone							
Subject GRANT ROAD SITE ASSESSI	MENT						
Notes: STAVES RETURNED CALL	OF DEIGNATUR. OSC HAS RECEIVED						
	TATIN DECONESTED ON EXTENSION/						
	NEEK OF NOVEMBER 16 - 20, TO						
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☐ Follow-Up By:							
☐ Copy/Route To:							
	Originator's Initials						

ENVIRONMENTAL PROTECTION AGENCY Office of Enforcement

CHAIN OF CUSTODY RECORD

REGION 6
First International Bldg., 1201 Elm St.
Dallas, Texas 75270

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1A. Cost Center:		AT ZONE II CONTRACT	2. No.:						
TS1306		CONTRACT NO. 68-01-7368 T 06-							
1B. Account No.:	j j	TECHNICAL DIRECTION DOCUMENT (TDD) TXD98							
TTX05 8 7SAC	ECOLO	OGY AND ENVIRONMENT, INC.	AND ENVIRONMENT, INC. Amend						
3A. Priority	4A. Estimate of	0,112,110,101							
☐X High	Total Hours:	Grant Rd. Drum Site		11/27/87					
☐ Medium ☐ Low	(D) (T)	5B. SSID No.: 5C. City/County/Sta	ate:	8. Reference Info:					
3B. Key EPA Contact:	4B. Overtime Approved:	N/A Houston/Har	ris/TX	☐ Yes ☐ Attached ☐ No ☐ Pick-up					
	45. Overtime Approved.	6. Source of Funds: Other	·						
Name: Staves	☐XYes ☐ No	X CERCLA		8A. Subtask Code:					
Phone: 655-2270		UST ———							
9. Type of Activity: CW	/A-311 CI	ERCLA AS	SPECIFIED ABO	VF					
☐ SPCC	X Site A	ssessment Special Project	t Qu	uality Assurance					
	J J J J J J J J J J J J J J J J J J J	val Funded Analytical Proval PRP (AO/CO)		aining ogram Management					
<u> </u>		te Monitoring UST	🛄 Te	chnical Assistance					
		☐ FEMA		formation Management					
10. General Task Descrip	tion: <u>Perform site</u>	assessment to determine re	emoval	11. Desired Report Form:					
	potential			X Formal Report					
				Letter Report Formal Briefing					
12. Specific Elements:				Other (Specify)					
	DD Amended to exte	nd completion date, and cha	ange in scope	,					
	specific Elements:	~							
		s during all phases of site	e assessment	40 1					
	evious undelivered		-	13. Interim Deadlines:					
3) Open and t	est all drums usir	g the "HAZ CAT" methodolog							
		ith similar characteristic							
five (5) c	composite samples i	for priority pollutant anal							
transport	samples to EPA Hou	iston Lab.							
5) Perform ot	ther duties as ass	gned by OSC							
Amended_elemen	nts:			.					
	deleted from task								
		from open containers and	transport						
'	o EPA Houston Lab.								
3) Develop ar	nd present element	for draft Action Memo wit	h formal rep	ort.					
14. Authorizing DPO:	De Order	to land		15. Date:					
7	Jan Col	(Signature)		11/19/11					
16. Received by:	Accepted / / / / / / / / / / / / /	cepted with Exceptions (Attached)	Rejected						
-	Ullla	m/ Stock		11-23-87					
Distribution:		(TATL Signature)		T00703					

White DPO Copy
Blue TATL Copy
Green ZPM Copy
Canary PO Copy
Pink CO Copy
Goldenrod DPO Original (Unsigned by TATL) Sheet 1
Sheet 2
Sheet 3
Sheet 4
Sheet 5
Sheet 6